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Dear Herb,

I seem to have ample time all of a sudden. My wife has gone to the country (up to L. A. to visit a sister for a couple of days), and business is now in the summer doldrums. Hence I am looking over my correspondence, and I see you are really three letters up on me, which is unusual.

My wife went by bus this time. Driving is a complicated business, or something, with us. I have to point the way, and she drives. It's still not a pleasure, and the way into Smogville, through a vast industrial suburban area, is navigating job, at least in the southern approach to the city.

We were up a couple of weeks ago, and I 'phoned Shultise, out at Pasadena. He's about the same; his kids are grown up, his wife is still nursing; he is a bit away from communications, a research man with Airjet, whatever that is. He still would like to live back in God's country, Kansas, where they have fresh air. Where we visited, on the beach side of the city, I didn't notice the smog much. He asked to be remembered to you.

I also had quite a long 'phone talk with B. H. Linden, long the federal radio inspector in these parts. He was a fellow ham with Admr. Ellery W. Stone, Haraden Pratt, and other S. F. boys, from about 1906 on. He tells me 6EA and old 6KA are still around L. A. I forgot to ask him about Les Grogan whom he must have known, too, in his youth. I note M. B. Grogan is listed in the Chicago tel. book now.

We stopped in Santa Ana on the way up where two former students of mine have built up a tremendous radionic practice. Of course they started, even if only three years ago, with \$25,000 to put in building and equipment. Both now sport the most expensive cars; one has dropped his old wife, etc., etc. One was over to Tucson to consult me just before we pulled out; they still think I am the master (but obviously not at the money making end of the business). They seem to get the best results, and I am impressed how ethically it is all done, no advertising, reasonable fees, a conservative approach--I know and teach the formula but it doesn't unfold for everyone.

It's nice here in the summer, in Diego, I mean, but the dampness I would wish to avoid other than these two or three months. I think the sea-level altitude is appropriate; I was out of breath too much at even 2500 feet, and the year around dust arising from Tucson's unpaved streets is no good. The city proper is small, but the new areas are all in unincorporated territory where paving is rare. We will not return there, I think. I am considering an inland Calif. town now, and we hope to visit Redlands, about 70 miles in from L. A. soon with the view of making it our winter location. The scorching heat of the Arizona summer is something, too. We read the present highs of 100 plus, and the worse lows of 80 at night, with a shudder; the coolers were very unsatisfactory to me, working as they do on the evaporation (over)

plan. I certainly liked it over there in the winters, I'll never forget. But perhaps we can work out some compromise inland here where the extremes are less. The big Hughes electronic plant that is going in Tucson, plus other new industries, however, promises quite good business conditions there; I, no doubt, could have profited if I had stayed and bought, but you never could get ahead there renting, for stiff raises for both business and home sites are promised with the increase in industry. It's the same here in S. D. ~~Bent~~ absorbs everything that is made in this active air and navy town.

Here I visited the other day the home of the late John Stone Stone, long consulting engineer for the telephone company, contemporary and personal friend of de Forest, winner over Marconi in the tuning patents battle, recognized as one of the really great among engineers themselves. I think I am on the trail of his technical books and papers; there is some collection of radio material in the library of San Diego State College, including the I. R. E. file from 1913 on, which I must inspect; it may have come from his estate.

I noted in passing the naval electronic laboratory out on Point Loma; the aerial gear on the roofs resembles nothing I am acquainted with. The gigantic towers back on the heights at this end of town fascinate me more, for surely they are the prototypes of the fabulous Sunshine Station in Storm's novel Full Measure, although Mr. Elwell, founder of Federal Telegraph, designer of the great arc stations at Lyons, Rome, et al., takes a dim view, tells me the navy overdesigned 'em. And I suspect a lot of power was needed to overcome the ground resistance up on those hills. But I admire 'em in the distance, so far from here that the station shack can't even be seen; I believe they are 600 feet high, located on Chollas Heights another 600 feet above the plain. Old Durkee was last assigned there, before he resigned and came to Universal Wireless. And a couple-three years after the navy got these power plants going, to work Cavite (that Durkee and his henchmen were always talking about), why, some ham, Windon, in Cincy worked N. Z. with a UV-199. Hi. How much voltage could he crowd on its plate?

Mr. Morse tells me that when he was with United Wireless up in British Columbia, in 1908, he used to work some naval station down here on Point Loma, and they would come in like they were next door. I went out there mainly to see the ruinous buildings the Theosophical Institute; the bizarre always interests me. Perhaps in that romantic location they felt as close to the edge of eternity as one can get and poised for the take-offs of projection. It is told that when a final schism broke of this branch's plant, the society members emerged from their compound illly equipped with classical education to cope with a real world into which they were thrust. The strange structures stand abandoned today, with subdividing encroaching on the once extensive grounds.

From the earliest of your letters I barked with regret of the passing of Prof. Edward Bennett, who delivered the first radio paper I ever listened to, at an A. I. E. E. prior to World War I. He was once associated with Fessenden, you know. Happier was the news of Brother Buckley who is becoming a gentleman farmer I gather. I must tell D. V. whom I haven't been much in touch with either.

I am surprised you report Comdr. Catel not back on active duty. When he was out west, he seemed to think his recall was imminent.

Surely the Great Lakes held no future for wireless telegraphy, and to think that at one time ~~three~~ companies with three sets of shore

were

stations competing for the ship business, to wit, United Wireless, Clark's company, and the de Forest Great Lakes Radiotelephone Co., all about 1910. In some ways, the 'phone idea of de Forest was the correct prediction, wasn't it? The Marconi monopoly, at its height from 1912 on for a few years, really stifled the field, cutting out as they did many stations and continuing to use obsolete equipment. As I told you, the first time I was up in WME, there was still a straight gap in use--in 1914! And the tuner was an English Company's valve job done over for carborundum.

I am much indebted to you for your comments on the several Galvanic circuits. I am still using the instrument as it was represented in the Fig. 3 state of development, with the 600 ohm fixed resistor and the fuse shunted out, and a "5M" shunt variable resistance substituted for the so-called "MLOPX." The variable series resistor, MIPX, I leave in for the fine adjusting to a selected current flow of 30 mills. I could put the fuse and 600 ohm fixed unit back in, but I have no soldering iron.

Now you seem to say that I could have used the set-up as it was in Fig. 2 (with the fuse and 600 ohm resistor in, and the shunt variable of MLOPX, which I assume is of 10,000 ohms--just as I think my present 5M is 5,000 ohms).

But the trouble was I couldn't get any current flow, except by shorting the output terminals, that is, no current flow with the pads on the usual positions of the treatment outline. In my diagram I represented this by a - at the output, just as in Fig. 3 I labeled the output 0 to 40 mills plus (while in the Fig. 1, the series only, the output was from 20 mills up, no less, which was the trouble there).

It is hard to conclude from what you say that the 600 ohm fixed resistor made the difference, or that the MLOPX couldn't have been adjusted down to where they would have been current flow through my normal load--as I could get flow on short. I must have shot the fuse first, then when I cut the protective device out, burned out the MLOPX in the shorting experiments, but I still get back to the question, why couldn't I get any flow at some adjustment through the pad load? I would try it again, but the MLOPX is gone.

wet

Would there be some difference if we agree that the MLOPX is of 100,000 while this 5M is 5,000, that is, in shunt, to my 45 v. B battery? The 5M is wound on a much wider strip than the MLOPX was.

Of course I am happy the way it is; I suppose I can cut the 600 ohmer and the fuse back in some time, although I always have this MIPX series variable in before I start adjusting the knob of the 5M.

Oh, yes, Galvanic and sinusoidal currents are used all the time, not Faradic anymore however. I have never practiced electro-therapy and I can't readily go into detail; I would have to look in the books again. My use, as I have explained, is special, for ion transfer, a method of administering enzymes effectively, to get an agent in the body to break-up this plastic clogging matter, rather than the use of d. c. as a so-called chemical current. A. c. is of course for stimulating nerve centers, getting contractions of the muscles. I think sine wave is useful after diathermy, to help move on the accumulation of blood brought by heating, effecting dilation of vessels.

I could not come to any conclusion from what you said about something at the end of your spine. Hemorrhoids are treated in our field by negative galvanism, the most radical approach. More conservative approaches make use of a sinewave to help pull up prolapsed belly organs. You can use a slant board to advantage, too, with the head low. Of course the diagnosis of abscess; somewhere around the tail bone, is something else again. You seem to describe conditions quite distinct, although at locations close enough to refer the discomfort to about the same area. If there is irritation in the rectum, a conservative approach is the use of chlorophyll ointment, and possibly dilation. If you have had an examination, it must be patent to the doctor what the trouble is,

Well, that will do for this afternoon. I must dine out, which I don't like. About supper time I miss my wife, if not before, for we have become very close. We are seldom separated even an hour or two. My business ties me down. Few of my clients take vacations themselves, and I must be on hand to get the assignment and get off the report right away, before the appointment for the patient comes up. The cost of living is beginning to defeat me; I can't increase the volume of my business, it seems, nor raise my fees, it also seems. I must get to a location, away from the resort areas or war plant vicinities.

I expect my ma out west shortly. She can't stick it out too long at a time up at King. She plans to stay in L. A. I wish she had been able to go to Japan. She likes to be near my sister's kids, but not live with them exactly. It's a problem, for we can't afford to rent big places. We spend too much now on rents of small apartments. I'd like a place with one room in front for a small local office, something I will look for out in a town like Redlands.

Regards,

